



### **IS 6664 : 1992; Microcellular Rubber Sheets for Outsoles**

Microcellular Rubber Sheets are lightweight, durable sheets made from rubber materials with a microcellular structure, characterized by a network of small, uniform, interconnected cells or pores.

Microcellular Rubber Sheets are used in manufacture as well as repair of soles and heels of footwear, made by stuck on process.

This standard prescribes the requirements, and methods of sampling and test for micro cellular rubber sheet for making outsoles.

Microcellular Rubber Sheets for Outsoles are often made up of vulcanized rubber compounded from natural or synthetic rubbers or their combination.

To meet Consumers expectation, high-quality Rubber micro cellular sheets exhibit parameters such as durability, comfort, and performance.

Key quality attributes include Relative density, Thickness, Hardness, Compression set, Split tear strength, Heat shrinkage test, Abrasion resistance, Flexing resistance and detailed requirements have been prescribed in the Standard for these parameters.

- **Relative Density** indicates the material's weight relative to its volume.
- **Thickness** evaluates the material's ability to provide adequate support and cushioning.
- **Hardness** measures the resistance of the material to deformation under pressure.
- **Compression Set** assesses the material's ability to return to its original thickness after being compressed.
- **Split Tear Strength** indicates the toughness and durability of the material.
- **Heat Shrinkage Test** measures dimensional stability when exposed to elevated temperatures.
- **Abrasion Resistance** measures resistance to wear caused by friction with surfaces.
- **Flexing Resistance** assesses the material's ability to endure repeated bending or flexing without cracking or breaking.

The IS 6664 : 1992 standard specifies these quality expectations through rigorous testing methods and specifications for Microcellular Rubber Sheets for Outsoles.

These specifications ensure Microcellular Rubber Sheets for Outsoles meet consumer demands for durability, comfort, and performance, with BIS certification serving as a mark of compliance and reliability.